

ABSTRACT

5 The present invention provides a plasma injector
 wherein a reducing agent injected from an injection port
 (19) at the distal end portion of an injection nozzle
 (18) is at least partially converted into a plasma; an
 exhaust gas purifying system; and a method for injecting
 a reducing agent. Using the plasma injector, the exhaust
10 gas purifying system, and the method for injecting a
 reducing gas of the present invention, it is possible to
 vaporize a reducing agent supplied in an injection manner
 and/or to provide a highly reactive reducing agent from
 the reducing agent.